

## **Manufacturing Technician Worksheet**

Name:					
Manual Cylinder Me	asurements: (only me	asure TWO of the foll	owing)		
		<del></del>	Cylinder 4:		
Are these measurem	ents within one tenth	of a millimeter of thos	se taken by the robot, (	Lailibot? Yes	NO
Voltages Across Fuse	es:				
Conveyor belt motor	: Lift ı	motor:	Robot (Calibot):		
each engine block mo	•	interval below. The fir	late the interval (I) betons the calculation has beer screen.		
Column 1 Interval of Time between Block Transfer Motor In and Lift Motor Up	Column 2 Interval of Time between Lift Motor Up and Block Transfer Motor Out	Column 3 Interval of Time between Block Transfer Motor Out and Lift Motor Down	Column 4 Time between Lift Motor Down and Limit Switch 5 (lift is at bottom of shaft)	Total # of Seconds	
1st movement - 6:40:35 2 <sup>nd</sup> movement - 6:40:43 Interval = <b>8 sec</b>	Interval = 10 sec	I = 8 sec	= 10 sec	36 sec	
1=	1=	1=	1=		

| =

| =

Space for calculations:

| =

| =

**Activity Generously Provided By:** 

| =

| =



**I** =

| =



## **Manufacturing Technician Worksheet**

**Describe** the problem with limit switch 3:

Angle Measurements: The angle of the limit switch arm should	be 90°. Angle measurement taken with angle	e ruler:
What is the highest tolerance listed on t	he chart?	
Given the highest tolerance, what is the limit switch to still work?	lowest acceptable number of degrees the ang	gle measurement could be for this
, •	ceptable number is the angle measured? or the difference between the highest toleran	
Allowable tolerance is 22% off vertical.	What is the percent the actuator arm is off fro	om true vertical?
Repair and Replacement Tracking Char	rt	
Print out for which sections of the Line	e? <u>E12</u>	
Print out for what dates?	Last 30 days	

Line Section	Part Repaired or Replaced	Brand/Model #	Down Time in Hours	Running Totals
E12	Limit Switch	Switcheroo LS7400	0.5	104413
C12	LIIIII SWILCII	3WILCHEIOU L37400	0.5	
E12	Limit Switch	Switcheroo LS7400	0.75	
E12	Limit Switch	Switcheroo LS7400	1.5	
E12	Limit Switch	Signals'R'Us	1	
E12	Optical switch	Acme	1.5	
E12	Limit Switch	Switcheroo LS7400	0.5	
E12	Optical switch	Acme	0.5	
E12	Limit Switch	Switcheroo LS7400	0.75	
E12	Limit Switch	Signals'R'Us	0.75	
E12	Limit Switch	Switcheroo LS7400	1.5	
E12	Limit Switch	Signals'R'Us	0.75	
E12	Optical Switch	Acme	1.5	
E12	Limit Switch	Switcheroo LS7400	1	
	<b>Grand total</b>	(round to whole #)		

Calculations to estimate the cost of the Switcheroo LS7400 to the company in the last 30 days:

**Activity Generously Provided By:** 

